**Homework 81** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quadrilateral Properties** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle!**

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| 1) Find the measurements of angle B, C, and D. | 2) Which of the following quadrilaterals have diagonals that are perpendicular?   1. Parallelogram 2. Rhombus 3. Square 4. Kite 5. I 6. II and III only 7. II, III, and IV 8. II and IV only 9. All of the above   To prove your answer above, draw four different diagrams with their diagonals.   |  |  | | --- | --- | | Parallelogram | Rhombus | | Square | Kite | |
| 3) If one diagonal of a rhombus is 10 cm and the other 24 cm, how long is each side of the rhombus? |
| 4) Find the length of DE.   1. 5 2. 5 3. 6 4. 6   Justify your answer in a sentence:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5) If one diagonal of a rhombus is 24 cm and the other is 70 cm, how long is each side of the rhombus? | 6) Find the measurement of angles B, C, and D respectively. |